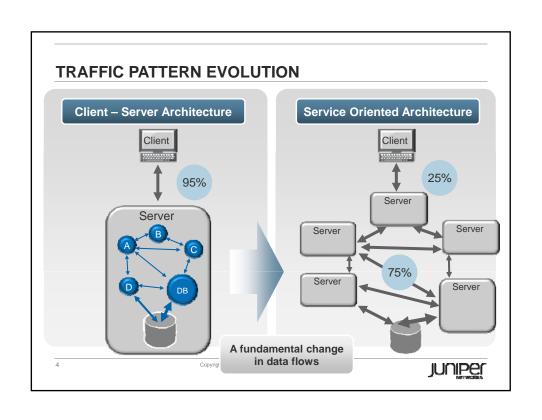
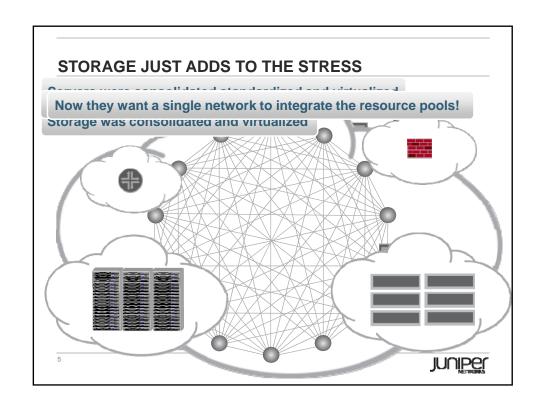
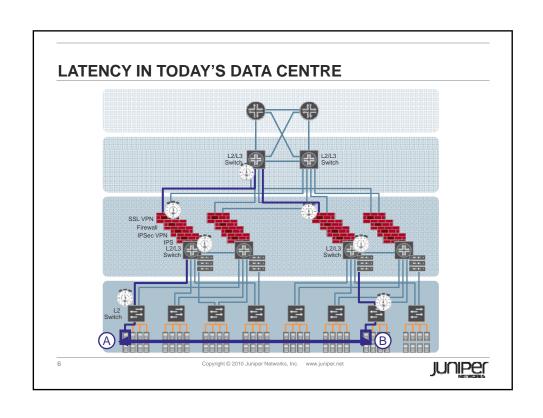
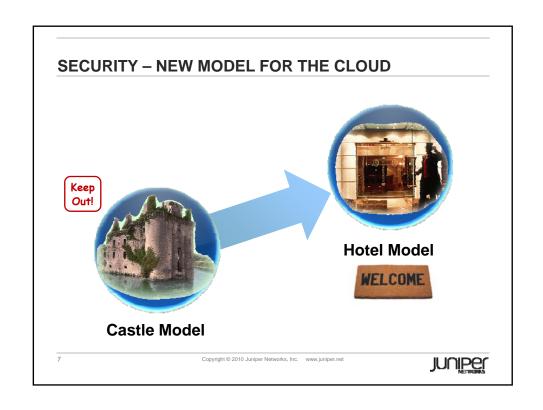


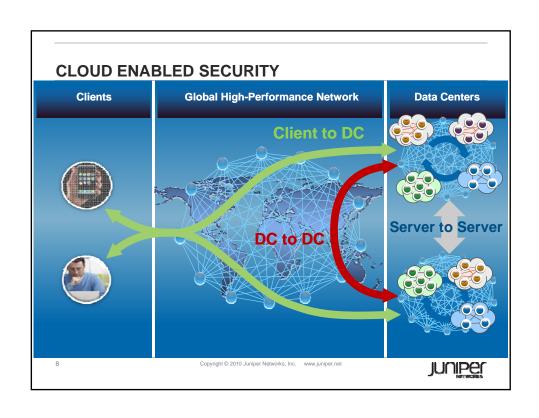
	Traffic Patterns	Latency	Loss	Scale	Economics	Management & Provisioning	Footprint and Energy	Security	Reliability
Application Evolution	√	√						√	
Virtualisation	√	√				✓		✓	
Consolidation				1	1	✓	✓		✓
Convergence	1	√	1		1	√			√



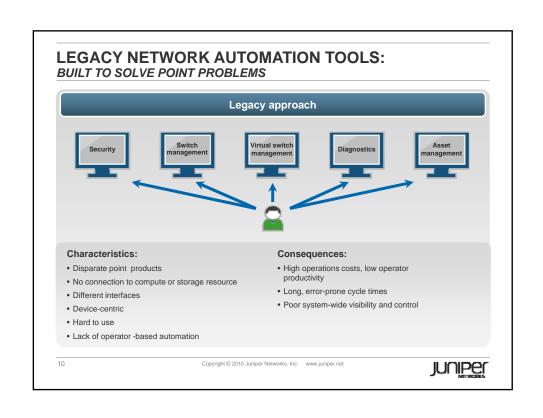












THE PAIN POINTS OF CONSOLIDATION

Scaling

- Consolidating many Data Centres teaches you all about N²
- Number of endpoints in Data Centres is increasing by an order of magnitude.

Energy and Space Footprint.

 Increase in communications density makes the network the fastestgrowing part of the data centre.

Availability

- "put all your eggs in one basket and then *watch* that basket."
- The Data Centre Network can never be turned off.
- ISSU, Non-stop operation, aggressive redundency.....

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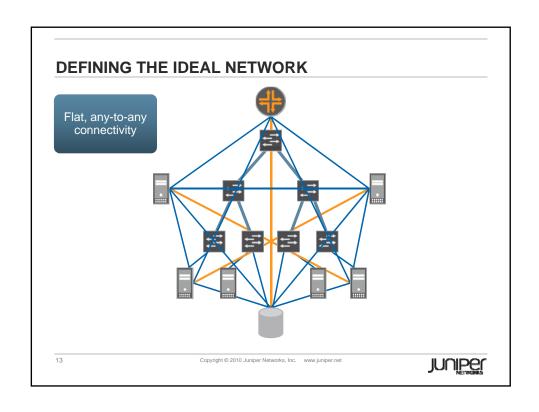
SO--- WATCHA GONNA DO ABOUT IT?

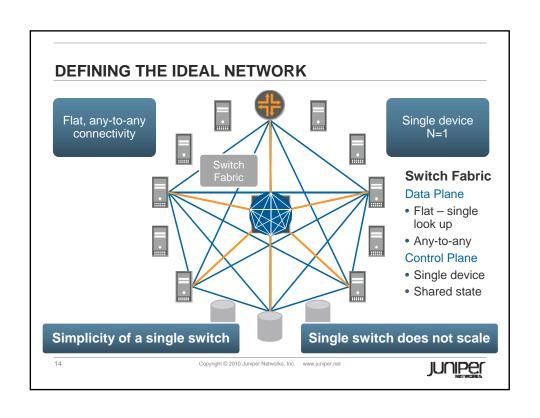


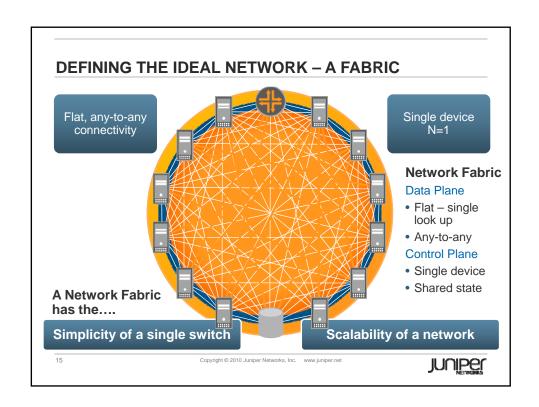
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THE LAW OF 1

A True Fabric has.....

- 1 Device
- 1 Layer (may have multiple switching planes)
- 1 Forwarding plane
- 1 Control plane
- 1 Management plane
- 1 Device state
- 1 Heck of a lot of endpoints
- 0 Packet loss

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